

RECEIVED 1632
JAN 17 2002
TECH CENTER 1600/2900

1600
#9
1-17-02
P. 2.

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/486,676

DATE: 01/08/2002

TIME: 15:22:34

Input Set : A:\GJE-39.ST25.txt

Output Set: N:\CRF3\01082002\I486676.raw

ENTERED

```

3 <110> APPLICANT: Crisanti, Andrea
5 <120> TITLE OF INVENTION: Conjugates that Contain the Homeodomain of Antennapedia
7 <130> FILE REFERENCE: GJE-39
9 <140> CURRENT APPLICATION NUMBER: US 09/486,676
10 <141> CURRENT FILING DATE: 2000-03-01
12 <150> PRIOR APPLICATION NUMBER: GB 9718609.2
13 <151> PRIOR FILING DATE: 1997-02-02
15 <160> NUMBER OF SEQ ID NOS: 12
17 <170> SOFTWARE: PatentIn version 3.1
19 <210> SEQ ID NO: 1
20 <211> LENGTH: 60
21 <212> TYPE: PRT
22 <213> ORGANISM: Drosophila sp.
24 <400> SEQUENCE: 1
26 Arg Lys Arg Gly Arg Gln Thr Tyr Thr Arg Tyr Gln Thr Leu Glu Leu
27 1 5 10 15
30 Glu Lys Glu Phe His Phe Asn Arg Tyr Leu Thr Arg Arg Arg Arg Ile
31 20 25 30
34 Glu Ile Ala His Ala Leu Cys Leu Thr Glu Arg Gln Ile Lys Ile Trp
35 35 40 45
38 Phe Gln Asn Arg Arg Met Lys Trp Lys Lys Glu Asn
39 50 55 60
42 <210> SEQ ID NO: 2
43 <211> LENGTH: 8
44 <212> TYPE: PRT
45 <213> ORGANISM: Artificial Sequence
47 <220> FEATURE:
48 <223> OTHER INFORMATION: Six histidine tail fused to conjugate for purification
50 <400> SEQUENCE: 2
52 His His His His His His Gly Ser
53 1 5
56 <210> SEQ ID NO: 3
57 <211> LENGTH: 16
58 <212> TYPE: PRT
59 <213> ORGANISM: Drosophila sp.
61 <400> SEQUENCE: 3
63 Arg Gln Ile Lys Ile Trp Phe Gln Asn Arg Arg Met Lys Trp Lys Lys
64 1 5 10 15
67 <210> SEQ ID NO: 4
68 <211> LENGTH: 16
69 <212> TYPE: PRT
70 <213> ORGANISM: Artificial Sequence
72 <220> FEATURE:
73 <223> OTHER INFORMATION: Variant sequence of helix 3. Must have between
74 6 and 10 hydrophobic amino acids.
76 <220> FEATURE:
77 <221> NAME/KEY: MISC_FEATURE

```

RAW SEQUENCE LISTING

DATE: 01/08/2002

PATENT APPLICATION: US/09/486,676

TIME: 15:22:34

Input Set : A:\GJE-39.ST25.txt

Output Set: N:\CRF3\01082002\I486676.raw

78 <222> LOCATION: (1)..(5)
 79 <223> OTHER INFORMATION: Can be any alpha-amino acid.
 82 <220> FEATURE:
 83 <221> NAME/KEY: MISC_FEATURE
 84 <222> LOCATION: (7)..(16)
 85 <223> OTHER INFORMATION: Can be any alpha-amino acid.
 88 <400> SEQUENCE: 4
 90 Xaa Xaa Xaa Xaa Xaa Trp Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 91 1 5 10 15
 94 <210> SEQ ID NO: 5
 95 <211> LENGTH: 16
 96 <212> TYPE: PRT
 97 <213> ORGANISM: Artificial Sequence
 99 <220> FEATURE:
 100 <223> OTHER INFORMATION: Variant sequence of helix 3. Must have between
 101 6 and 10 hydrophobic amino acids.
 103 <220> FEATURE:
 104 <221> NAME/KEY: MISC_FEATURE
 105 <222> LOCATION: (1)..(10)
 106 <223> OTHER INFORMATION: Can be any alpha-amino acid.
 109 <220> FEATURE:
 110 <221> NAME/KEY: MISC_FEATURE
 111 <222> LOCATION: (12)..(16)
 112 <223> OTHER INFORMATION: Can be any alpha-amino acid.
 115 <400> SEQUENCE: 5
 117 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Trp Xaa Xaa Xaa Xaa Xaa
 118 1 5 10 15
 121 <210> SEQ ID NO: 6
 122 <211> LENGTH: 35
 123 <212> TYPE: PRT
 124 <213> ORGANISM: Drosophila sp.
 126 <400> SEQUENCE: 6
 128 Leu Thr Arg Arg Arg Arg Ile Glu Ile Ala His Ala Leu Cys Leu Thr
 129 1 5 10 15
 132 Glu Arg Gln Ile Lys Ile Trp Phe Gln Asn Arg Arg Met Lys Trp Lys
 133 20 25 30
 136 Lys Glu Asn
 137 35
 140 <210> SEQ ID NO: 7
 141 <211> LENGTH: 35
 142 <212> TYPE: PRT
 143 <213> ORGANISM: Drosophila sp.
 145 <400> SEQUENCE: 7
 147 Leu Thr Arg Arg Arg Arg Ile Glu Ile Ala Tyr Ala Leu Cys Leu Thr
 148 1 5 10 15
 151 Glu Arg Gln Ile Lys Ile Trp Phe Ala Asn Arg Arg Met Lys Trp Lys
 152 20 25 30
 155 Lys Glu Asn
 156 35

RAW SEQUENCE LISTING

DATE: 01/08/2002

PATENT APPLICATION: US/09/486,676

TIME: 15:22:34

Input Set : A:\GJE-39.ST25.txt

Output Set: N:\CRF3\01082002\I486676.raw

```

159 <210> SEQ ID NO: 8
160 <211> LENGTH: 35
161 <212> TYPE: PRT
162 <213> ORGANISM: Drosophila sp.
164 <400> SEQUENCE: 8
166 Leu Thr Arg Arg Arg Arg Ile Glu Ile Ala His Ala Leu Cys Pro Pro
167 1 5 10 15
170 Glu Arg Gln Ile Lys Ile Trp Phe Gln Asn Arg Arg Met Lys Trp Lys
171 20 25 30
174 Lys Glu Asn
175 35
178 <210> SEQ ID NO: 9
179 <211> LENGTH: 4
180 <212> TYPE: PRT
181 <213> ORGANISM: Artificial Sequence
183 <220> FEATURE:
184 <223> OTHER INFORMATION: Factor Xa cleavage sequence.
186 <400> SEQUENCE: 9
188 Ile Glu Gly Arg
189 1
192 <210> SEQ ID NO: 10
193 <211> LENGTH: 5
194 <212> TYPE: PRT
195 <213> ORGANISM: Artificial Sequence
197 <220> FEATURE:
198 <223> OTHER INFORMATION: Enterokinase cleavage sequence.
200 <400> SEQUENCE: 10
202 Asp Asp Asp Asp Lys
203 1 5
206 <210> SEQ ID NO: 11
207 <211> LENGTH: 5
208 <212> TYPE: PRT
209 <213> ORGANISM: Artificial Sequence
211 <220> FEATURE:
212 <223> OTHER INFORMATION: Thrombin cleavage sequence.
214 <400> SEQUENCE: 11
216 Leu Val Pro Arg Gly
217 1 5
220 <210> SEQ ID NO: 12
221 <211> LENGTH: 17
222 <212> TYPE: DNA
223 <213> ORGANISM: Artificial Sequence
225 <220> FEATURE:
226 <223> OTHER INFORMATION: GAL4 DNA binding domain.
228 <400> SEQUENCE: 12
229 cggaggacag tcctccg

```

17

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/486,676

DATE: 01/08/2002

TIME: 15:22:35

Input Set : A:\GJE-39.ST25.txt

Output Set: N:\CRF3\01082002\I486676.raw

L:90 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4

L:117 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5